

CLAIMS

What is claimed is:

1. A display apparatus with a mirror function, comprising:
a display, which comprises a transparent substrate; and
a semi-reflecting layer, which is disposed on one side of the transparent substrate.
2. The display apparatus of claim 1, wherein the transparent substrate has a first surface and a second surface opposite the first surface.
3. The display apparatus of claim 2, wherein the semi-reflecting layer is disposed on the first surface of the transparent substrate.
4. The display apparatus of claim 2, wherein the semi-reflecting layer is disposed on the second surface of the transparent substrate.
5. The display apparatus of claim 1, wherein the transparent substrate comprises at least one selected from the group consisting of a flexible substrate, a rigid substrate, a plastic substrate and a glass substrate.
6. The display apparatus of claim 1, wherein the semi-reflecting layer comprises a metal.
7. The display apparatus of claim 1, wherein the semi-reflecting layer comprises a dielectric material.
8. The display apparatus of claim 1, wherein the semi-reflecting layer has a radiation transmittance between about 10% and 90%.
9. The display apparatus of claim 1, wherein the display comprises at least one selected from the group consisting of an organic electroluminescent display, an inorganic electroluminescent display, a light-emitting diode display, a liquid crystal display, a plasma display panel, a vacuum fluorescent display, a field emission display, and an

electro-chromic display.

10. A display apparatus with a mirror function, comprising:
 - a transparent substrate;
 - a first electrode, which is disposed on the transparent substrate;
 - a second electrode, which is disposed above the first electrode;
 - a light-emitting zone, which is disposed between the first electrode and the second electrode; and
 - a mirror plate, which is disposed on one side of the transparent substrate opposite to another side of the transparent substrate connected to the first electrode.
11. The display apparatus of claim 10, wherein the light-emitting zone comprises at least one organic electroluminescence layer.
12. The display apparatus of claim 10, wherein the light-emitting zone comprises at least one electroluminescence layer or emitting media.
13. The display apparatus of claim 10, wherein the mirror plate is assembled with the transparent substrate.
14. The display apparatus of claim 10, wherein the mirror plate is disposed adjacent to the transparent substrate.
15. The display apparatus of claim 10, wherein the mirror plate comprises a transparent plate and a semi-reflecting layer, and the semi-reflecting layer is disposed on the transparent plate.
16. The display apparatus of claim 15, wherein the semi-reflecting layer is positioned between the transparent substrate and the transparent plate.
17. The display apparatus of claim 15, wherein the transparent plate is disposed between the transparent substrate and the semi-reflecting layer.

18. The display apparatus of claim 15, wherein the semi-reflecting layer is made of metal.
19. The display apparatus of claim 15, wherein the semi-reflecting layer is made of a dielectric material.
20. The display apparatus of claim 15, wherein the semi-reflecting layer has a light transmittance between about 10% and 90%.
21. The display apparatus of claim 10, wherein the transparent substrate is selected from at least one of a flexible substrate, a rigid substrate, a plastic substrate, and a glass substrate.
22. The display apparatus of claim 10, wherein the first electrode is an electrical conductive metal oxide electrode layer.
23. The display apparatus of claim 10, wherein the second electrode is an electrode layer made of a material selected from at least one of aluminum, calcium, and magnesium-silver alloys.